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LIMESTONE BOULDERS

ARTHUR GOSHORN

An extensive layer of limestone boulders was exposed by the steam shovels in getting out crushed rock for Winterset streets and paving on U. S. Highway No. 169. The quarry is the old "Lime Kiln" quarry and is in Buffalo Hollow on No. 169 within the city limits.

The exposure reads:

Drift to the top-----	13 feet
Cherryvale Shale-----	8 feet
Winterset Limestone-----	13 feet
Galesburg Shale-----	8 feet
Bethany Limestone-----	22 feet

The DeKalb bed is not present and does not appear until two miles farther west.

The layer or sheet of limestone blocks or boulders make a horizontal line across the face of the stripping the full length of the quarry which is about 400 feet long. It lies two feet above the Cherryvale shale. The drift between the bed of boulders and the Cherryvale is composed of fragments of limestone, glacial pebbles and the usual glacial clay.

The blocks or boulders are all large and of all shapes from nearly round to oblong with rounded corners and edges. All show the effect of glacial action and are worn smooth. Some of them are almost glazed.

No fossils in any of the discarded boulders that lie in the quarry could be found except a fragment of a *Productus*, and a *Meekella striata costata*. Some of the boulders have *Fusulina* in them, a characteristic of the top heavy layer of the Winterset bed, which is the top rock for three miles farther north. Judging from the size of the blocks or boulders if they came from any of the members of the Kansas City formation they would be from the Winterset or upper Hertha beds, or from the DeKalb bed, which, if it were ever present, was entirely removed by glacial action.

Hundreds of the limestone boulders were used by the quarry for crushed rock but some were discarded and are in the dump heap. Granite boulders were mixed with them. In no other quarry in the

Kansas City near Winterset have limestone boulders in great numbers been encountered.

The extent of this bed of limestone boulders will probably never be known as the quarry has been pushed back into the hill to the city cemetery.

WINTERSET, IOWA.